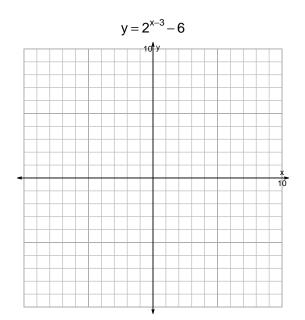
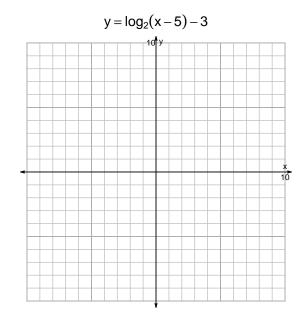
s18quiz: EXP LOG (Practice v101)

1. Graph $y=2^{x-3}-6$ and $y=\log_2(x-5)-3$ on the grids below. Also, draw any asymptotes with dotted lines.

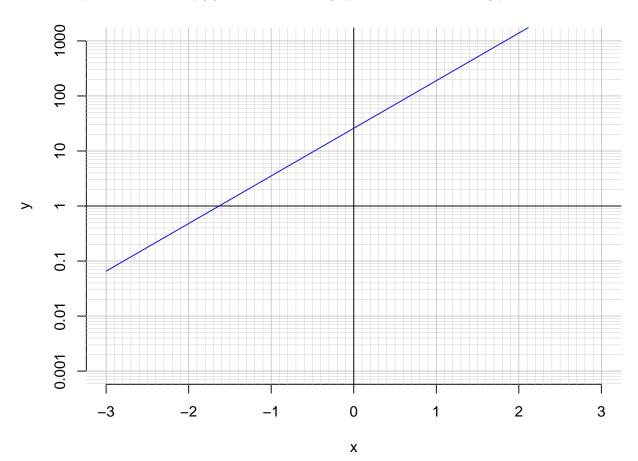




2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$17 = \left(\frac{4}{5}\right) \cdot 2^{-7t/3}$$

3. An exponential function $f(x) = 25.8 \cdot e^{1.99x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate f(-2.9).
- b. Express $f^{-1}(x)$, the inverse of f.
- c. Using the plot above, evaluate $f^{-1}(70)$.